

**CLAIM LISTING**

A listing of an entire set of claims 1-12 (including new claims 9-12) is submitted herewith per 37 C.F.R. §1.121. This listing of claims 1-12 will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) An activity monitor comprising:  
a measurement unit including a plurality of motion sensors, operable to produce respective sensor signals indicative of motion experienced thereby; and  
a processor for receiving the sensor signals from the measurement unit and operable to process the signals in accordance with a predetermined method,  
[[characterised]] characterized in that the measurement unit has a single output channel and is operable to output the sensor signals in turn on the output channel, and  
characterized in that the measurement unit and the processor are both attached to an object being monitored by the activity monitor.
2. (Original) An activity monitor as claimed in claim 1, wherein the motion sensors are accelerometers.
3. (Previously Presented) An activity monitor as claimed in claim 1, wherein the motion sensors are arranged to be mutually orthogonal.
4. (Previously Presented) An activity monitor as claimed in claim 2 or 3, wherein the processor is operable to sample the output channel of the measurement unit discontinuously in time.

5. (Previously Presented) An activity monitor as claimed in claim 1, wherein the measurement unit is operable to operate the output channel discontinuously in time during output of each motion sensor output signal.
6. (Currently Amended) A method of monitoring activity of an object using a plurality of motion sensors which are operable to produce respective sensor signals indicative of motion experienced thereby, the method comprising receiving the sensor signals and processing the signals in accordance with a predetermined method, characterized in that the sensor signals are monitored in turn via a single channel at the object being monitored.
7. (Original) A method as claimed in claim 6, wherein the output of the single channel is monitored discontinuously in time.
8. (Original) A method as claimed in claim 6, wherein the sensor signals are produced discontinuously in time.
9. (New) An activity monitor comprising:
  - a measurement unit including a plurality of motion sensors, operable to produce respective sensor signals indicative of motion experienced thereby; and
  - a processor for receiving the sensor signals from the measurement unit and operable to process the signals in accordance with a predetermined method,
  - characterized in that the measurement unit has a single output channel and is operable to output the sensor signals in turn on the output channel, and
  - characterized in that processor is operable to sample the output channel of the measurement unit discontinuously in time.

10. (New) An activity monitor as claimed in claim 9, wherein the motion sensors are accelerometers.
11. (New) An activity monitor as claimed in claim 9, wherein the motion sensors are arranged to be mutually orthogonal.
12. (New) An activity monitor as claimed in claim 9, wherein the measurement unit is operable to operate the output channel discontinuously in time during output of each motion sensor output signal.